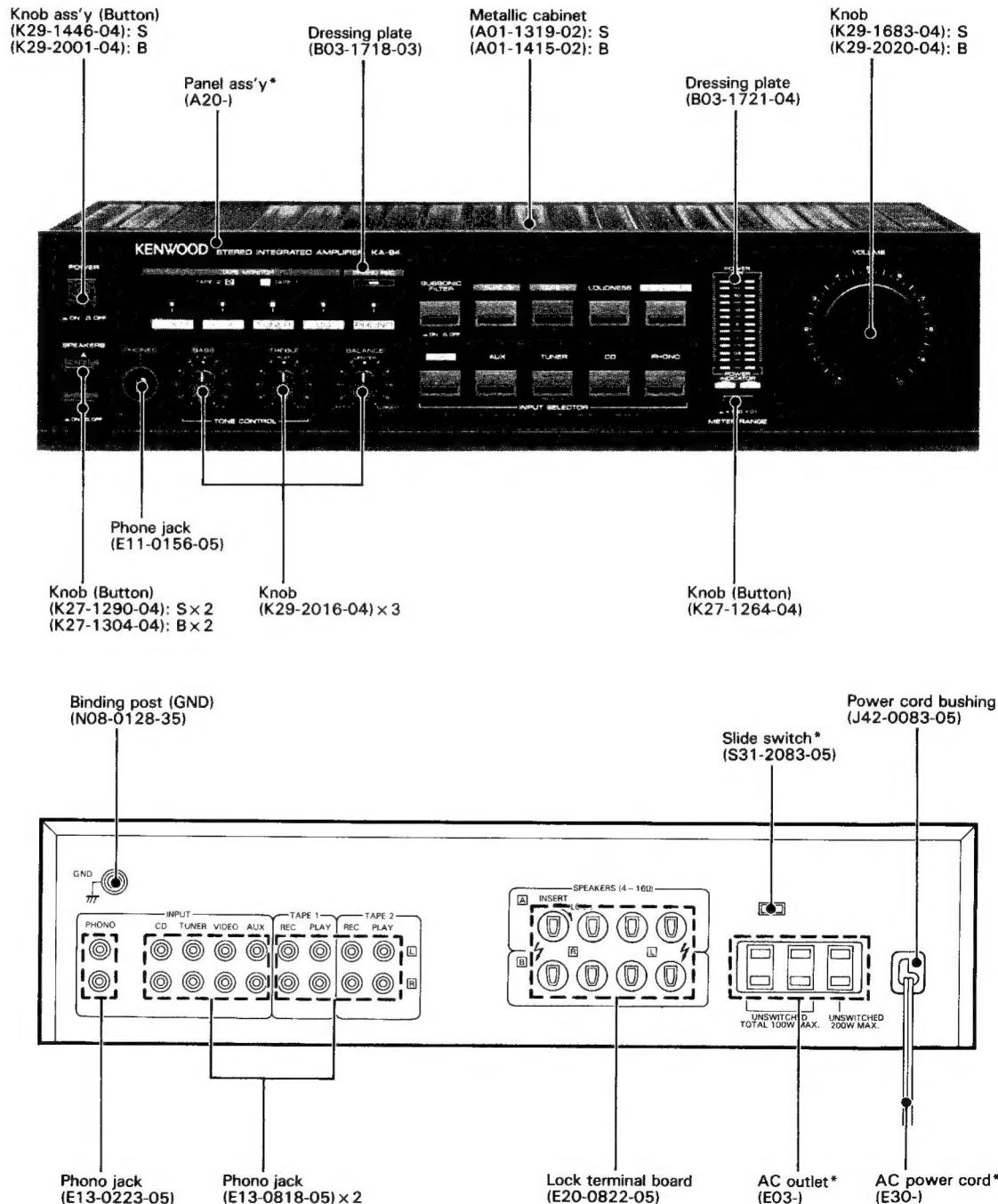


KENWOOD

KA-94

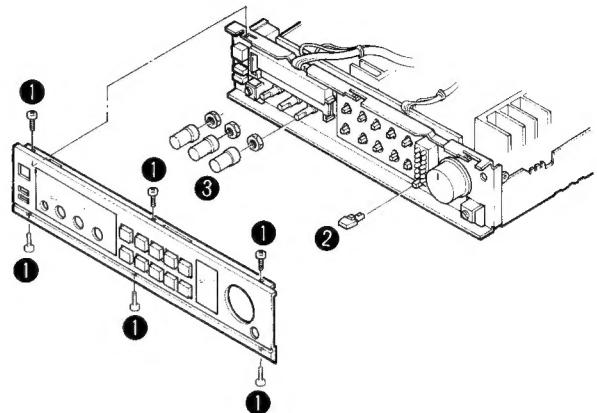
STEREO INTEGRATED AMPLIFIER



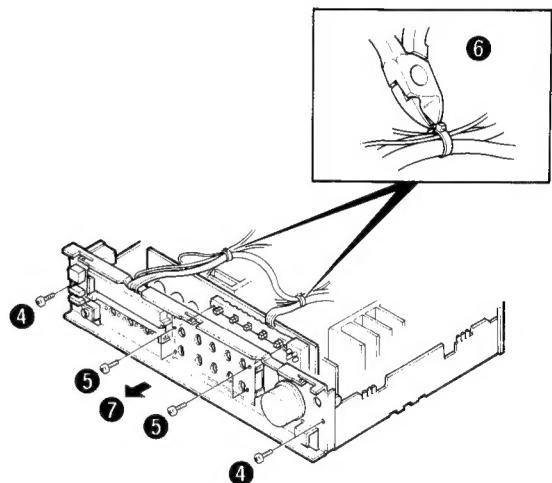
* Refer to Parts List on page 6.
Photo is KA-94 (Black version).
S: Silver version
B: Black version

DISASSEMBLY FOR REPAIR

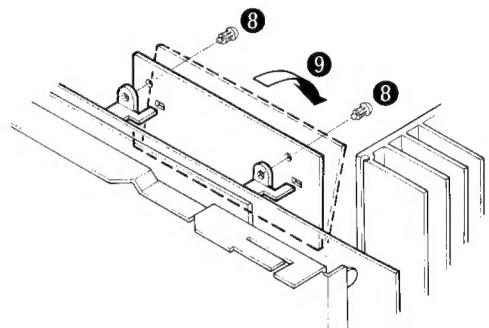
1. Remove the metallic case and remove 6 screws retaining the panel assembly (1).
2. Remove the panel assembly and pull off the BASS, TREBLE, BALANCE, METER RANGE knobs (2, 3).



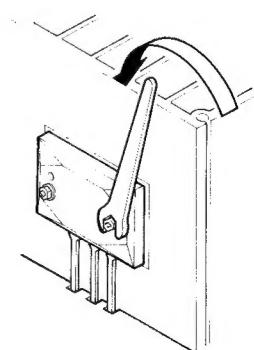
3. Remove 2 screws at the ends of the sub panel and 4 screws retaining the switches (4, 5).
4. Cut the wire bands bonding the lead wires with a wire cutter (6). Pull the sub panel forward and then components on pc board can be replaced (7).

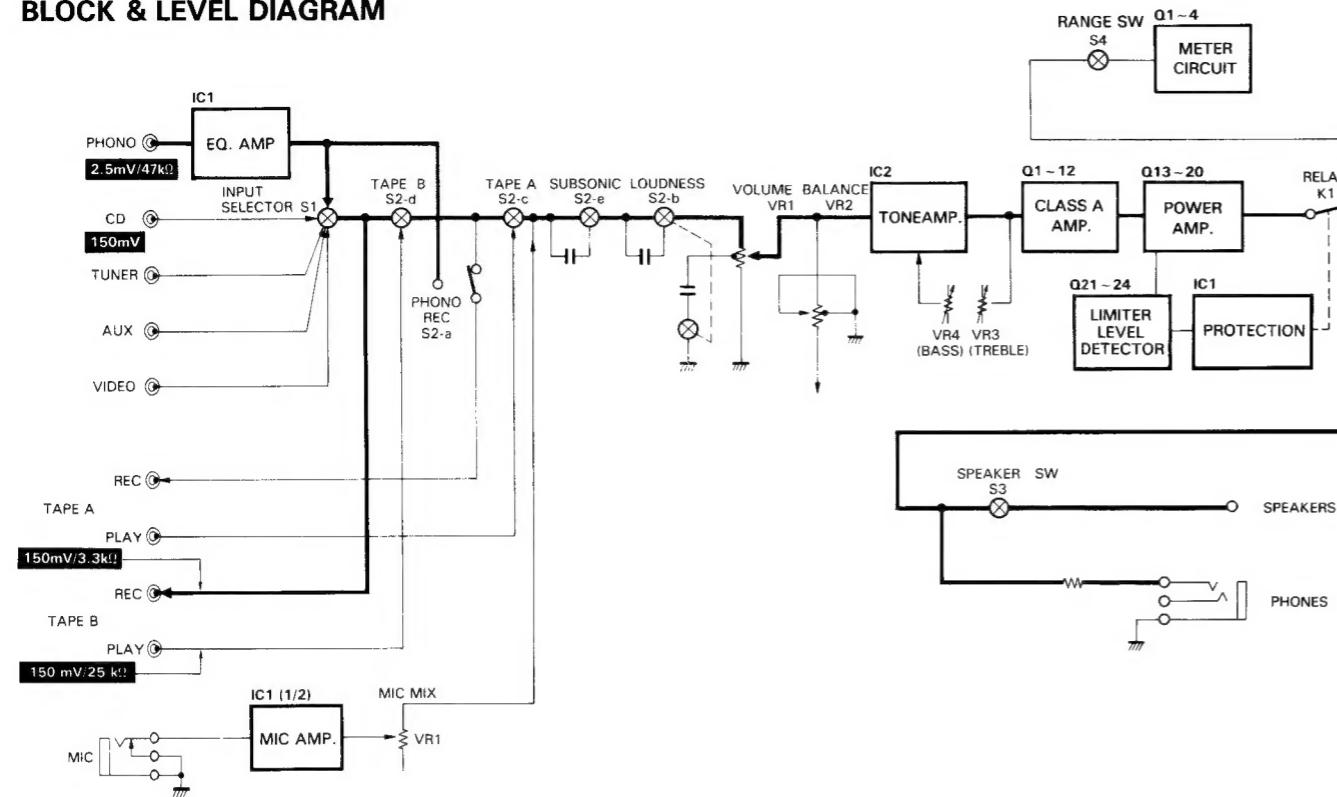


5. For repair of X07 (B/4) pc board, remove 2 push rivets and tilt it toward the rear (8, 9).



6. For replacement of power transistors, use a hex-wrench (W05-0022-00) (10).



BLOCK & LEVEL DIAGRAM/CIRCUIT DESCRIPTION
BLOCK & LEVEL DIAGRAM

CIRCUIT DESCRIPTION
Component function
Control unit (X11-2110-10)

Components	Functions	Operations
IC1	EQ amp	
IC2	TONE amp	
Q1 - Q4	Meter circuit	Rectifies the main amp output and is controlled by the range select switch.
Q5	AVR	For backlight lamp

Main amp unit (X07-2210-10)

Components	Functions	Operations
Q1 - Q4	1st stage differential amp	Class A amp
Q5 - Q8	2nd stage differential amp	Class A amp
Q9 - Q12	Class A amp	
Q13 - Q16	Driver amp	
Q17 - Q20	Power amp	
Q21 - Q24	Level detection	Operates as a current limiter for final protection in overload drive.
Q27	AVR	For Class A amp
Q38 - Q41	AVR	
Q43, Q44	BIAS amp	
IC1	Protection IC	Operates when amp malfunctions Relay OFF.

ADJUSTMENT

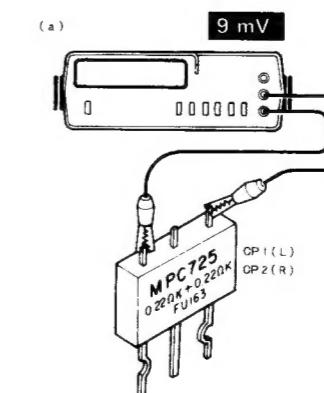
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
Set the controls and switches as follows: POWER: ON SPEAKER: B							
1	IDLE CURRENT	—	Connect a DC voltmeter across CP1 (L) CP2 (R)	VOLUME: 0	VR1 (L) VR2 (R)	9V	(a)

REGLAGES

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE L'AMPLIFICATEUR	POINS L'ALIGNEMENT	ALIGNER POUR	FIG.
Régler les contrôles et les boutons comme suit: POWER: ON SPEAKER: B							
1	COURANT DE POLARISATION	—	Connecter un voltmètre de CC sur CP1 (G) CP2 (D)	VOLUME: 0	VR1 (G) VR2 (D)	9V	(a)

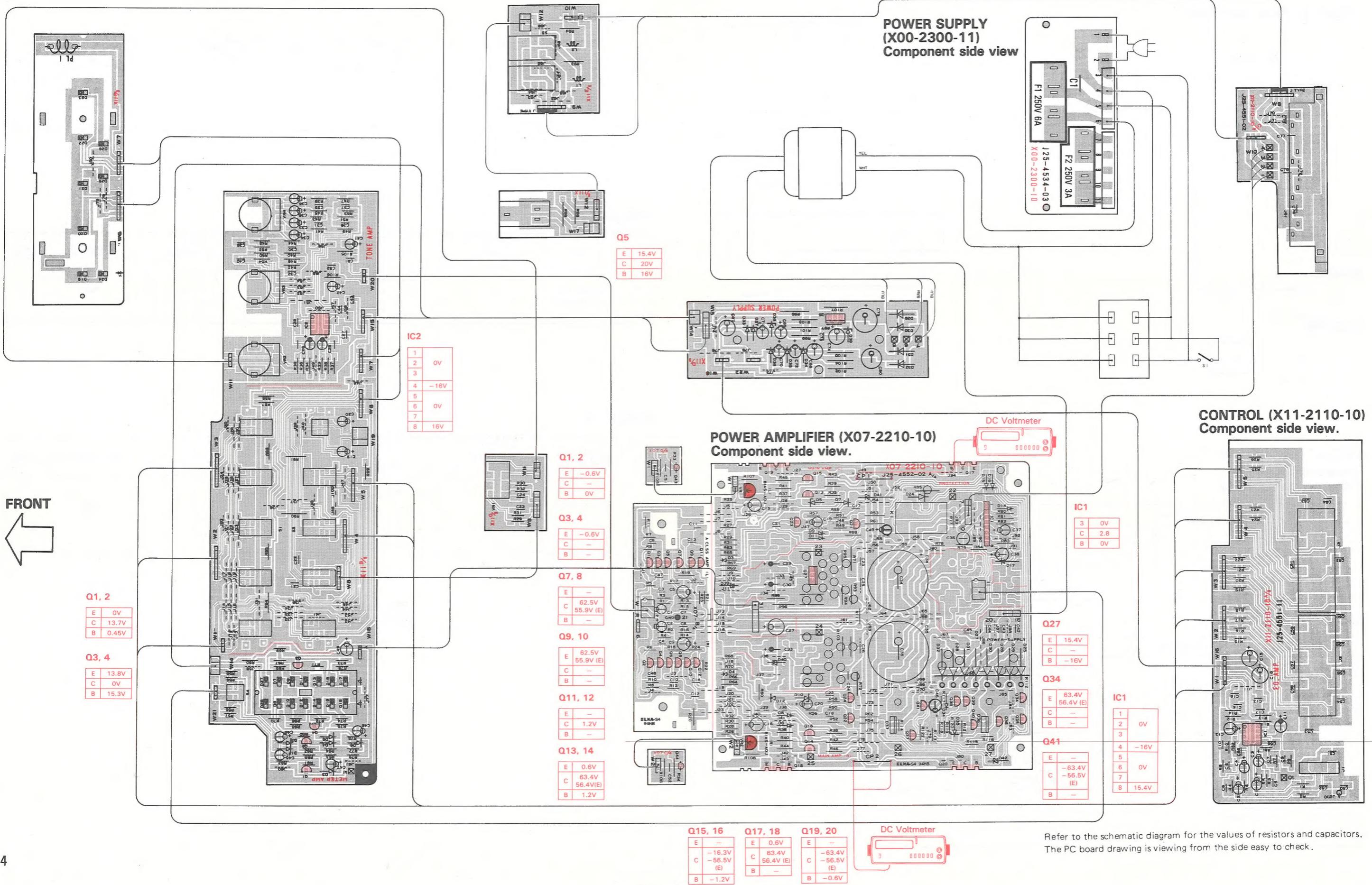
ABGLEICH

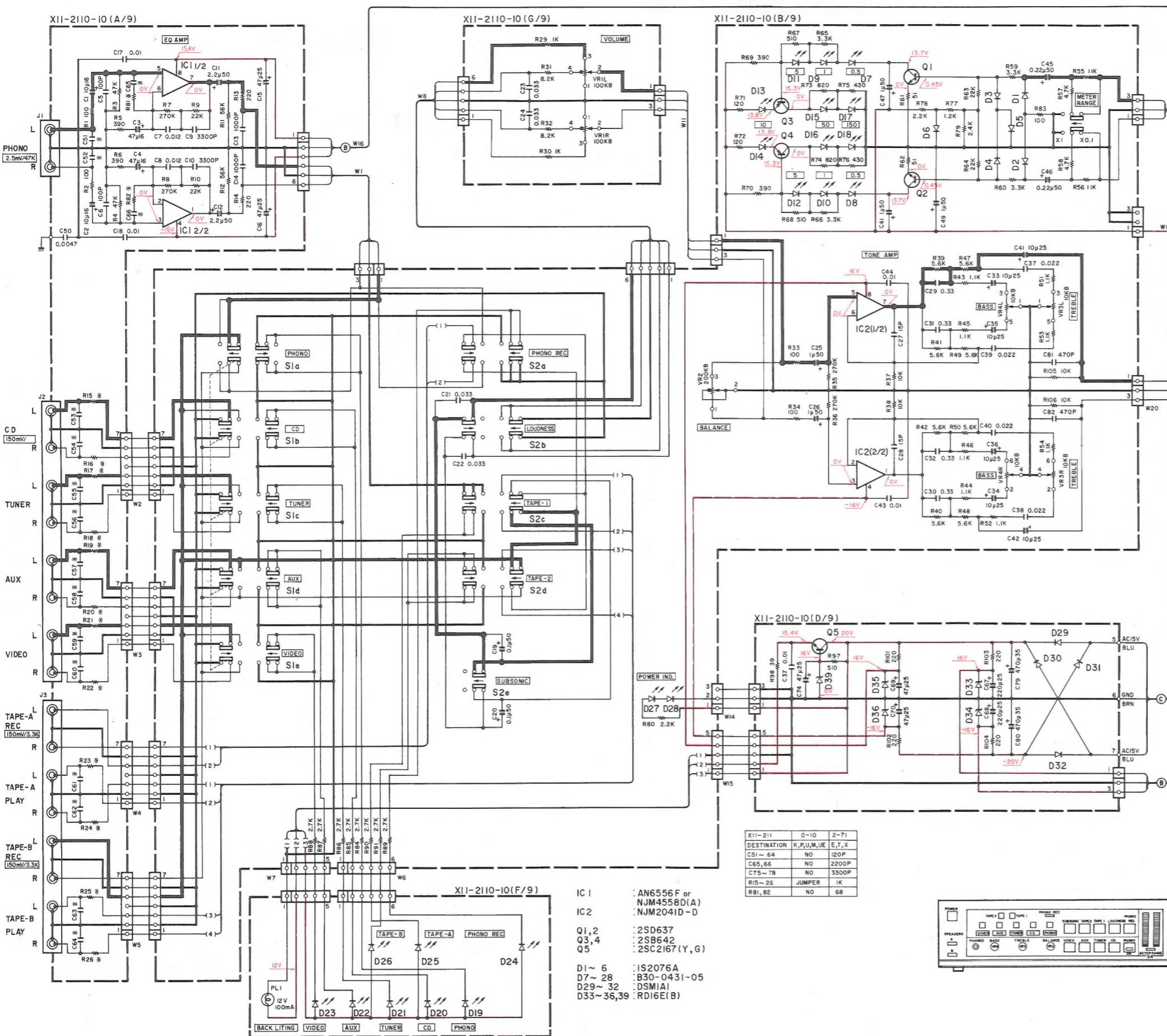
NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	VORSTÄRKER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
Die Regler und Knöpfe wird folgt einstellen: POWER: ON SPEAKER: B							
1	LEERLAUFSTROM	—	Einen Gleichspannungsmesser über CP1 (L) CP2 (R) anschließen	VOLUME: 0	VR1 (L) VR2 (R)	9V	(a)



KA-94 KA-94

PC BOARD





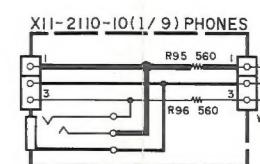
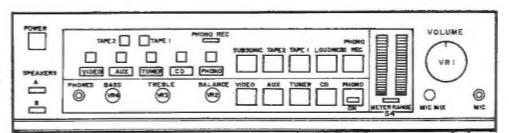
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance

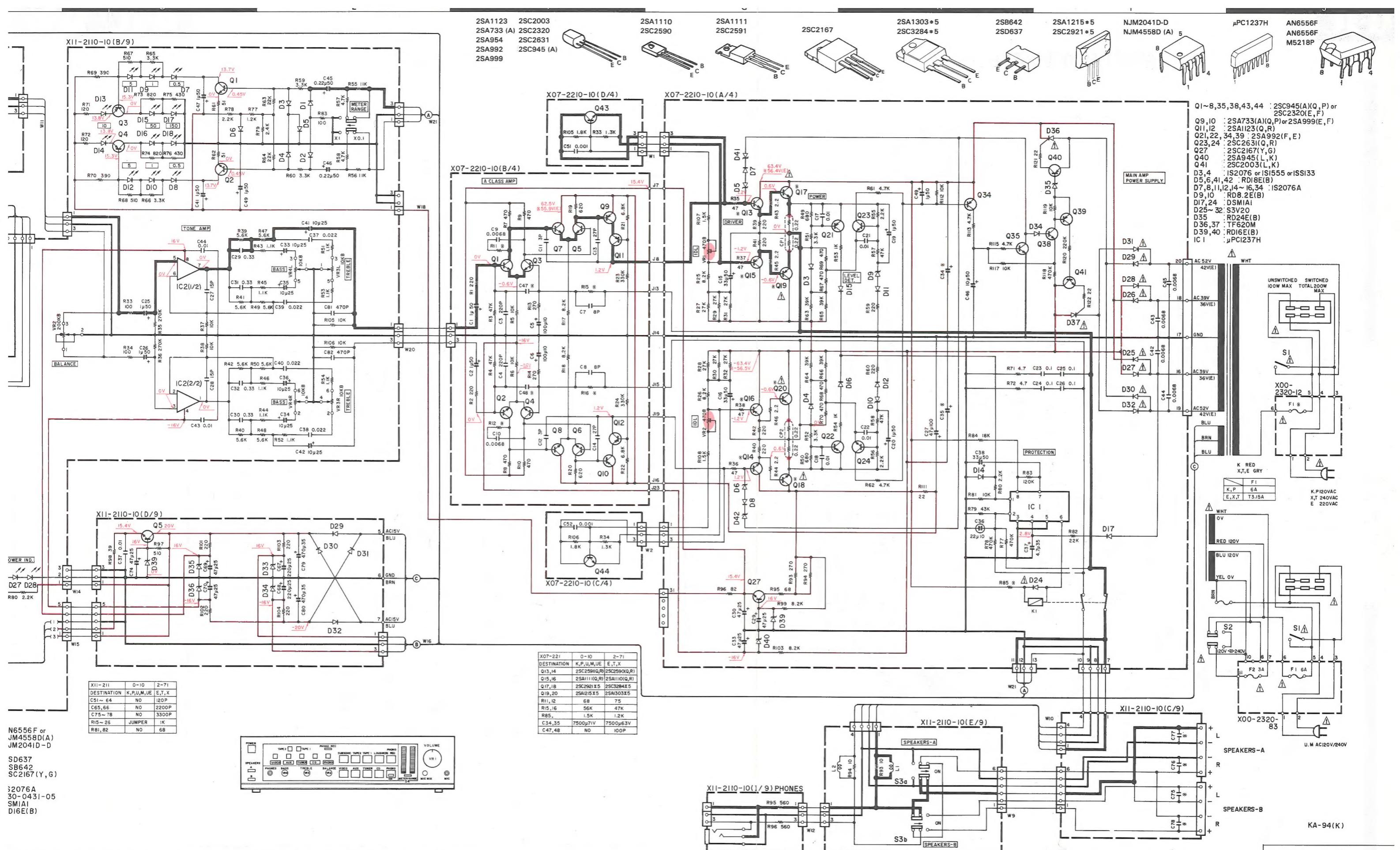
measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions
mètrent à hau-
valeurs peuve-
tions inhéren-
mesure indivi-

X07-221	0-10	2-71
DESTINATION	K _i P _i U _i M _i	E _i T _i X _i
Q13,14	252259Q,R _i	252259Q,R _i
Q15,16	2521AIQ,R _i	2521AIQ,R _i
Q17,18	252292I _i X _i	2523284X _i
Q19,20	252AI25X _i	252AI30X _i
R11,12	68	75
R15,16	56K	47K
R85,	1.5K	1.2K
C34,35	7500uJ7V	7500uJ63V
C47,48	NO	100P





continued safety, replace safety critical components with manufacturer's recommended parts (refer to the following table).

measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

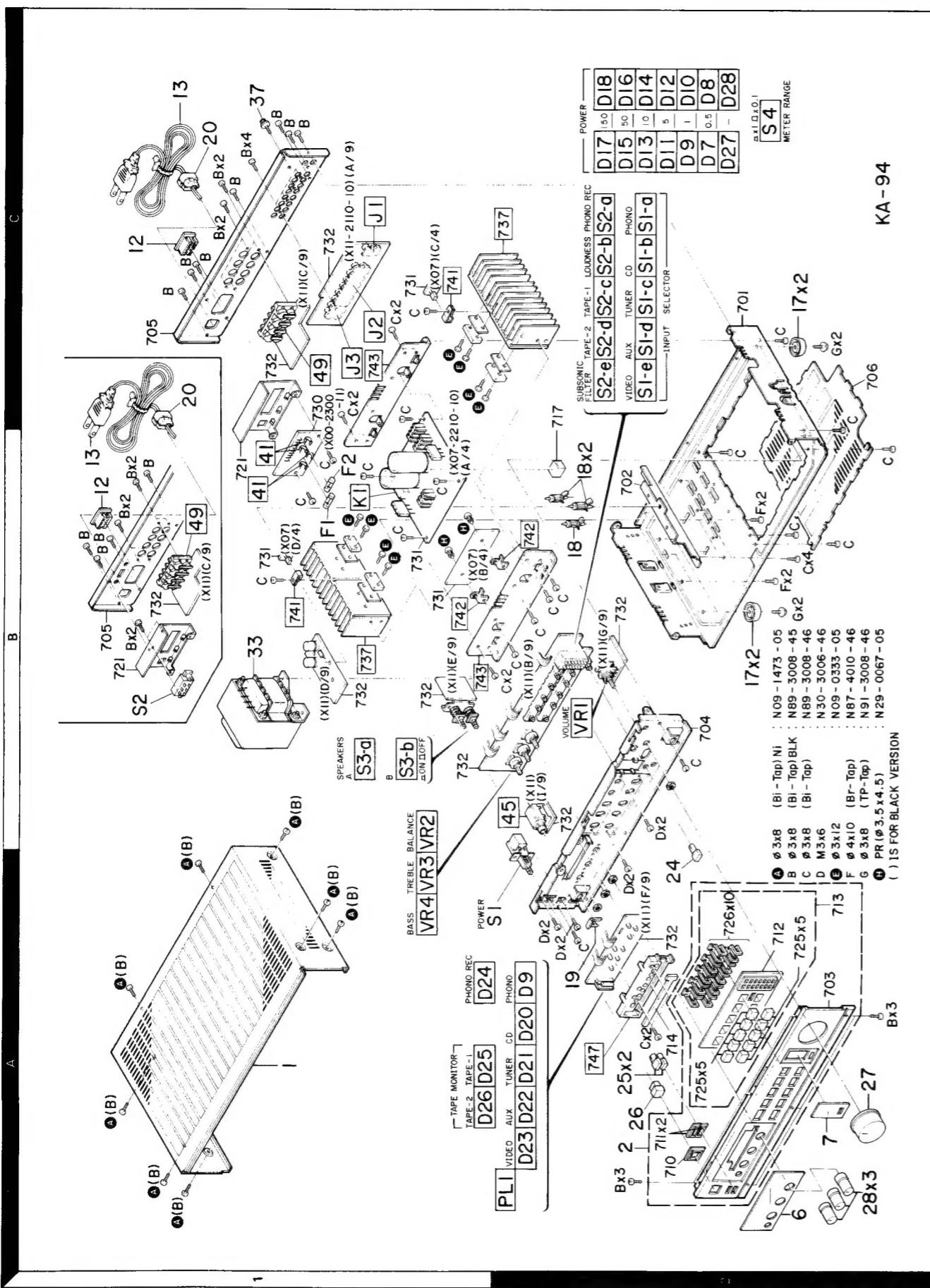
DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangs-
schaltung gemessen. Dabei schwanden die Meßwerte
aufgrund von Unterschieden zwischen einzelnen
Instrumenten oder Geräten u.U. geringfügig.

KA-94
KENWOOD

EXPLODED VIEW



PARTS LIST

* New Parts

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Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
KA-94 (Silver)						
1	1A	*	A01-1319-02	METALLIC CABINET	KPUM	
2	2A	*	A20-4244-02	PANEL ASSY	UEXE	
3	2A	*	A20-4244-02	PANEL ASSY		
4	2A	*	A20-4245-02	PANEL ASSY	T	
5	6		B03-1718-03	DRESSING PLATE(TONE CONT,DISP)	K	
6	7		B03-1721-04	DRESSING PLATE(METER RANGE)	UE	
7	2A		B46-0092-03	WARRANTY CARD	P	
8	2A		B46-0094-03	WARRANTY CARD	E	
9	2A		B46-0095-03	WARRANTY CARD	T	
10	1		B46-0096-03	WARRANTY CARD	KPUM	
11	1		B46-0121-03	WARRANTY CARD	UEXE	
12	1		B46-0122-13	WARRANTY CARD	PMXE	
13	1		B46-0123-03	WARRANTY CARD	M	
14	1		B50-5535-00	INSTRUCTION MANUAL(ENGLISH)	M	
15	1		B50-5535-00	INSTRUCTION MANUAL(ENGLISH)	T	
16	1		B50-5536-00	INSTRUCTION MANUAL(FRENCH)	KPUM	
17	1		B50-5537-00	INSTRUCTION MANUAL(SPANISH)	UE	
18	1		B50-5538-00	INSTRUCTION MANUAL(ARABIC)	P	
19	1		B50-5539-00	INSTRUCTION MANUAL(ENGLISH)	E	
20	1		B50-5540-00	INSTRUCTION MANUAL(G,D,I)	K	
21	1		B58-0223-04	CAUTION CARD (PRE-SET 120V)	UE	
22	1		B58-0245-33	CAUTION CARD (FTZ)	P	
23	1		B58-0269-04	CAUTION CARD	E	
24	1		B58-0513-04	CAUTION CARD (PRESET220-240)	K	
25	1		B59-0092-00	SERVICE DIRECTORY	UE	
26	12		E03-0068-05	AC OUTLET	P	
27	12		E03-0069-05	AC OUTLET	KUMUE	
28	13		E30-0181-05	AC POWER CORD	E	
29	13		E30-0459-05	AC POWER CORD	T	
30	13		E30-0587-15	AC POWER CORD	K	
31	13		E30-0812-05	AC POWER CORD	UE	
32	13		E30-0974-05	AC POWER CORD	P	
33	13		E30-1341-05	AC POWER CORD	X	
34	F1		F05-3121-05	FUSE (SEMKO) (250V T3, 15A)	XTE	
35	F1		F05-6021-05	FUSE (250V 6A)	UMUE	
36	F1		F05-6027-05	FUSE (UL) (250V 6A)	KP	
37	F2		F05-3022-05	FUSE (250V 3A)	UMUE	
38	*	*	H01-5349-04	ITEM CARTON CASE	KPUM	
39	*	*	H01-5349-04	ITEM CARTON CASE	UEXE	
40	*	*	H01-5350-04	ITEM CARTON CASE		
41	*	*	H10-1788-04	POLYSTYRENE FOAMED FIXTURE		
42	*	*	H10-1812-02	POLYSTYRENE FOAMED FIXTURE		
43	*	*	H10-1813-02	POLYSTYRENE FOAMED FIXTURE		
44	*	*	H25-0223-04	PROTECTION BAG (750X350)		
45	*	*	H25-0232-04	PROTECTION BAG (235X350)		
46	17	2B,2C	J02-0161-04	FOOT		
47	18	2B	J19-0515-05	UNIT HOLDER		
48	19	2A,2B	J21-3326-05	JACK MOUNTING HARDWARE(PHONES)		
49	20	1C	J42-0083-05	POWER CORD BUSHING		
50	20		J61-0307-05	WIRE BAND		
51	24	2A	K27-1264-04	KNOB (BUTTON) METER RANGE		

E: Scandinavia & Europe

H: Audio Club K: USA P: Canada

S: South Africa

T: England U: PX(Far East, Hawaii)

UE: AAFES(Europe)

X: Australia M: Other Areas

△ indicates safety critical components.

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Ref. No. 参照番号	Address 位 置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕	Re- marks 向備考
25	2A		K27-1290-04	KNOB (BUTTON) SPEAKERS A/B		
26	2A		K29-1446-04	KNOB ASSY(BUTTON) POWER		
27	2A		K29-1683-04	KNOB VOLUME		
28	2A		K29-2016-04	KNOB BASS, TREBLE, BALANCE		
33	1B		L01-3961-05	POWER TRANSFORMER	KP	
33	1B		L01-3962-05	POWER TRANSFORMER	XT	
33	1B		L01-3965-05	POWER TRANSFORMER	UMUE	
33	1B		L01-3967-05	POWER TRANSFORMER	E	
37	1C		N08-0128-35	BINDING POST (GND)		
A	1A, 1B		N09-1473-05	TAPPING SCREW (M3X8)		
▲ S1	1A		S40-1073-05	PUSH SWITCH (POWER)	UMUE	
▲ S2	1B		S31-2083-05	SLIDE SWITCH (POWER TYPE)	UMUE	
KA-94 (Black)						
1	1A	*	A01-1415-02	METALLIC CABINET		
2	2A	*	A20-4235-02	PANEL ASSY	KPUM	
2	2A	*	A20-4235-02	PANEL ASSY	UEXE	
2	2A	*	A20-4236-02	PANEL ASSY	T	
6	2A	*	B03-1718-03	DRESSING PLATE(TONE CONT. DISP)		
7	2A	*	B03-1721-04	DRESSING PLATE(METER RANGE)		
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0094-03	WARRANTY CARD	UUE	
-			B46-0095-03	WARRANTY CARD	UUE	
-			B46-0096-03	WARRANTY CARD	X	
-			B46-0121-03	WARRANTY CARD	P	
-			B46-0122-13	WARRANTY CARD	E	
-			B46-0123-03	WARRANTY CARD	T	
-		*	B50-5535-00	INSTRUCTION MANUAL(ENGLISH)	KPUM	
-		*	B50-5535-00	INSTRUCTION MANUAL(ENGLISH)	UEXE	
-		*	B50-5536-00	INSTRUCTION MANUAL(FRENCH)	PMXE	
-		*	B50-5537-00	INSTRUCTION MANUAL(SPANISH)	M	
-		*	B50-5538-00	INSTRUCTION MANUAL(ARABIC)	M	
-		*	B50-5539-00	INSTRUCTION MANUAL(ENGLISH)	T	
-		*	B50-5540-00	INSTRUCTION MANUAL(G,D,I)	E	
-			B58-0223-04	CAUTION CARD (PRE-SET 120V)	U	
-			B58-0245-33	CAUTION CARD (FTZ)	E	
-			B58-0269-04	CAUTION CARD	K	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	UE	
-			B59-0092-00	SERVICE DIRECTORY	UUE	
▲ 12	1C		E03-0068-05	AC OUTLET	P	
▲ 12	1C		E03-0069-05	AC OUTLET	KUMUE	
▲ 13	1C		E30-0181-05	AC POWER CORD	K	
▲ 13	1C		E30-0459-05	AC POWER CORD	E	
▲ 13	1C		E30-0587-15	AC POWER CORD	T	
▲ 13	1C		E30-0812-05	AC POWER CORD	UMUE	
▲ 13	1C		E30-0974-05	AC POWER CORD	P	
▲ 13	1C		E30-1341-05	AC POWER CORD	X	
▲ F1	1C		F05-3121-05	FUSE (SEMKO) (250V T3. 15A)	XTE	
▲ F1	1C		F05-6021-05	FUSE (250V 6A)	UMUE	
▲ F1	1C		F05-6027-05	FUSE (UL) (250V 6A)	KP	
▲ F2	1C		F05-3022-05	FUSE (250V 3A)	UMUE	
-		*	H01-5343-04	ITEM CARTON CASE	KPUM	
-		*	H01-5343-04	ITEM CARTON CASE	UEXE	

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C51 ,52			CK45FB1H102K	CERAMIC	1000PF		K			
E H	1B, 1C 1B		N09-0333-05 N29-0067-05	TAPPING SCREW PUSH RIVET	(Ø3X12) (Ø3.5X4.5)					
CP1 ,2			R90-0187-05	MULTI-COMP	0.22X2	K	5W			
R19 ,20			RD14AB2E621J	FL-PROOF RD	620	J	1/4W			
R33 ,34		*	RD14AB2E132J	FL-PROOF RD	1.3K	J	1/4W			
R35 ,38			RD14AB2E470J	FL-PROOF RD	47	J	1/4W			
R39 ,42			RD14AB2E221J	FL-PROOF RD	220	J	1/4W			
R43 ,46			RD14AB2E2R2J	FL-PROOF RD	2.2	J	1/4W			
R59 ,60			RD14AB2E221J	FL-PROOF RD	220	J	1/4W			
R71 ,72			RS14KB3D4R7J	FL-PROOF RS	4.7	J	2W			
R85		*	RS14KB3D122J	FL-PROOF RS	1.2K	J	2W			XTE
R85		*	RS14KB3D152J	FL-PROOF RS	1.5K	J	2W			KPUM
R93 ,94		*	RS14KB3D271J	FL-PROOF RS	270	J	2W			UE
R95			RS14KB3D680J	FL-PROOF RS	68	J	2W			
R96			RS14KB3D820J	FL-PROOF RS	82	J	2W			
R99		*	RS14KB3A822J	FL-PROOF RS	8.2K	J	1W			
R103		*	RS14KB3A822J	FL-PROOF RS	8.2K	J	1W			
R105, 106		*	RD14AB2E182J	FL-PROOF RD	1.8K	J	1/4W			
R107, 108		*	RD14AB2E152J	FL-PROOF RD	1.5K	J	1/4W			
R111			RD14AB2E220J	FL-PROOF RD	22	J	1/4W			
R121			RD14GB2E220J	FL-PROOF RD	22	J	1/4W			
R122			RD14AB2E220J	FL-PROOF RD	22	J	1/4W			
VR1 ,2		*	R12-0094-05	TRIMMING POT. (470) IDLING						
K1	1B		S51-2058-05	MAGNETIC RELAY						
D3 ,4			1SS133	DIODE						
D3 ,4			1S1555	DIODE						
D3 ,4			1S2076	DIODE						
D5 ,6			RD18E(B)	ZENER DIODE						
D7 ,8			1S2076A	DIODE						
D9 ,10		*	RD8.2E(B)	ZENER DIODE						
D11 ,12			1S2076A	DIODE						
D14 ,16			1S2076A	DIODE						
D17			DSM1A1	DIODE						
D24			DSM1A1	DIODE						
D25 ,32			S3V20	DIODE						
D34			1S2076A	DIODE						
D35			RD24E(B)	ZENER DIODE						
D36 ,37			TF620M	SCR						
D39 ,40			RD16E(B)	ZENER DIODE						
D41 ,42			RD18E(B)	ZENER DIODE						
IC1			UPC1237H	IC(PROTECTION)						
Q1 ,8			2SC2320(E,F)	TRANSISTOR						
Q1 ,8			2SC945(A)(Q,P)	TRANSISTOR						
Q9 ,10			2SA733(A)(Q,P)	TRANSISTOR						
Q9 ,10			2SA999(E,F)	TRANSISTOR						
Q11 ,12			2SA1123(Q,R)	TRANSISTOR						
Q13 ,14			2SC2590(Q,R)	TRANSISTOR						
Q13 ,14			2SC2591(Q,R)	TRANSISTOR						
Q13 ,14			2SC2591(Q,R)	TRANSISTOR						
Q15 ,16			2SA1110(Q,R)	TRANSISTOR						

E: Scandinavia & Europe H: Audio Club K: USA

P: Canada

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UE AAFES(Europe)

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..		*	H01-5344-04	ITEM CARTON CASE	T	
..		*	H10-1788-04	POLYSTYRENE FOAMED FIXTURE		
..		*	H10-1812-02	POLYSTYRENE FOAMED FIXTURE		
..		*	H10-1813-02	POLYSTYRENE FOAMED FIXTURE		
..			H25-0223-04	PROTECTION BAG (750X350)		
..			H25-0232-04	PROTECTION BAG (235X350)		
17	2B, 2C		J02-0161-04	FOOT		
18	2B		J19-0515-05	UNIT HOLDER		
19	2A, 2B		J21-3326-05	JACK MOUNTING HARDWARE (PHONES)		
20	1C		J42-0083-05	POWER CORD BUSHING		
			J61-0307-05	WIRE BAND		
24	2A		K27-1264-04	KNOB (BUTTON) METER RANGE		
25	2A		K27-1304-04	KNOB (BUTTON) SPEAKERS A/B		
26	2A		K29-2001-04	KNOB ASSY (BUTTON) POWER		
27	2A	*	K29-2020-04	KNOB VOLUME		
28	2A	*	K29-2016-04	KNOB BASS, TREBLE, BALANCE		
33	1B	*	L01-3961-05	POWER TRANSFORMER	KP	
33	1B	*	L01-3962-05	POWER TRANSFORMER	XT	
33	1B	*	L01-3965-05	POWER TRANSFORMER	UMUE	
33	1B	*	L01-3967-05	POWER TRANSFORMER	E	
37	1C		N08-0128-35	BINDING POST (GND)		
△ S1	1A		S40-1073-05	PUSH SWITCH (POWER)	UMUE	
△ S2	1B		S31-2083-05	SLIDE SWITCH (POWER TYPE)	UMUE	
POWER SUPPLY (X00-2300-11)						
41	1B		J13-0041-05	FUSE CLIP	KP	
41	1B		J13-0041-05	FUSE CLIP	UMUE	
41	1B		J13-0054-05	FUSE CLIP	XTE	
POWER AMP (X07-2210-10)						
C1 ,2			CEO4FW1H010M	ELECTR0 1.0UF	50WV	
C3 ,4			CC45FSL1H221J	CERAMIC 220PF	J	
C5 ,6			CEO4FW1A101M	ELECTR0 100UF	10WV	
C7 ,8			CC45FSL1H080D	CERAMIC 8.0PF	D	
C9 ,10			CF92FV1H682J	MF 6800PF	J	
C11 ,12			CC45FSL1H030C	CERAMIC 3.0PF	C	
C13 ,14			CC45FSL1H270J	CERAMIC 27PF	J	
C15 ,16			CEO4FW1H330M	ELECTR0 33UF	50WV	
C17 ,18			CK45FF1H103Z	CERAMIC 0.010UF	Z	
C19 ,20			CEO4FW1H010M	ELECTR0 1.0UF	50WV	
C21 ,22			CK45FF1H103Z	CERAMIC 0.010UF	Z	
C23 -26			CF92FV1H104J	MF 0.10UF	J	
C27		*	CEO4FW2A470M	ELECTR0 47UF	100WV	
C29 ,30			CEO4FW1E470M	ELECTR0 47UF	25WV	
C33			CEO4FW1E470M	ELECTR0 47UF	25WV	
C34 ,35			C90-1294-05	ELECTR0 7500UF	63WV	XTE
C34 ,35		*	C90-1318-05	ELECTR0 7500	80WV	KPUM
C34 ,35		*	C90-1318-05	ELECTR0 7500	80WV	UE
C36			CEO4HW1A220M	NP-ELEC 22UF	10WV	
C37			CEO4FW1V4R7M	ELECTR0 4.7UF	35WV	
C38			CEO4FW1H330M	ELECTR0 33UF	50WV	
C42 -45			CK45FE2H682P	CERAMIC 6800PF	P	
C46			CEO4FW1J100M	ELECTR0 10UF	63WV	
C47 ,48			CC45FSL1H101J	CERAMIC 100PF	J	
C49			CEO4FW1H010M	ELECTR0 1.0UF	50WV	XTE

E: Scandinavia & Europe H: Audio Club K: USA

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M: Other Areas

△ indicates safety critical components.

PARTS LIST

* New Parts

Parts without **Parts No.** are not supplied.Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.Teile ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Desti- nation 仕向	Re- marks 備考
C79 ,80 C81 ,82			CEO4FW1V471M CK45FB1H471K	ELECTRO 470UF 35WV CERAMIC 470PF K		
45 49 J1 J2 ,3	1B 1C 1C 1C	*	E11-0156-05 E20-0822-05 E13-0223-05 E13-0818-05	PHONE JACK (3P) PHONES LOCK TERMINAL BOARD(8P) PHONE JACK (2P) PHONE PHONE JACK (8P) INPUT, TAPE 1/2		
L1 ,2			L39-0085-05	PHASE-COMPENSATION COIL		
R93 ,94 R95 ,96 R98 R101-104 VR1			RS14DB3A100J RS14DB3D561J RS14DB3D560J RD14AB2E221J R06-5131-05	FL-PROOF RS 10 J 1W FL-PROOF RS 560 J 2W FL-PROOF RS 56 J 2W FL-PROOF RD 220 J 1/4W POTENTIOMETER(100KX2)VOLUME		
VR2 VR3 ,4	1A 1A	*	R01-5051-05 R06-3049-05	POTENTIOMETER(200K) BALANCE POTENTIOMETER(10KX2) TREB, BASS		
S1 S2 S3 S4	2C 2C 1B 2C	*	S42-5041-05 S42-5042-05 S42-2110-05 S40-2323-05	MULTI-PUSH SW (5 KEY) INPUT SEL MULTI-PUSH SW (5 KEY) INPUT SEL MULTI-PUSH SW SPEAKER PUSH SWITCH (METER RANGE)		
D1 -6 D29 -32 D33 -36 D39 IC1			1S2076A DSM1A1 RD16E(B) RD16E(B) AN6556F	DIODE DIODE ZENER DIODE ZENER DIODE IC(OP AMP X2)		
IC1 IC2 Q1 ,2 Q3 ,4 Q5		*	NJM4558D(A) NJM2041D-D 2SD637 2SB642 2SC2167(Y,G)	IC(OP AMP X2) IC(OP AMP X2) TRANSISTOR TRANSISTOR TRANSISTOR		

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名/規格	Desti- nation 仕向	Re- marks 備考
Q15 ,16			2SA1111(Q,R)	TRANSISTOR	KPUM	
Q15 ,16			2SA1111(Q,R)	TRANSISTOR	UE	
Q17 ,18		*	2SC2921*5	TRANSISTOR	KPUM	
Q17 ,18		*	2SC2921*5	TRANSISTOR	UE	
Q17 ,18		*	2SC3284*5	TRANSISTOR	XTE	
Q19 ,20		*	2SA1215*5	TRANSISTOR	KPUM	
Q19 ,20		*	2SA1215*5	TRANSISTOR	UE	
Q19 ,20		*	2SA1303*5	TRANSISTOR	XTE	
Q21 ,22			2SA992(F,E)	TRANSISTOR		
Q23 ,24			2SC2631(Q,R)	TRANSISTOR		
Q27			2SC2167(Y,G)	TRANSISTOR		
Q34			2SA992(F,E)	TRANSISTOR		
Q35			2SC2320(E,F)	TRANSISTOR		
Q35			2SC945(A)(Q,P)	TRANSISTOR		
Q38			2SC2320(E,F)	TRANSISTOR		
Q38			2SC945(A)(Q,P)	TRANSISTOR		
Q39			2SA992(F,E)	TRANSISTOR		
Q40			2SA954(L,K)	TRANSISTOR		
Q41			2SC2003(L,K)	TRANSISTOR		
Q43 ,44			2SC945(A)(Q)	TRANSISTOR		

CONTROL (X11-2110-10)

D7 -28	2A,2C 2A	B30-0431-05 B30-0284-05	LED(LN21CPH)PWR,TAPE MONI ETC. LAMP(12V 0.11A)			
C1 ,2		CEO4FW1E100M	ELECTRO	10UF	25WV	
C3 ,4		CEO4FW1C470M	ELECTRO	47UF	16WV	
C5 ,6		CC45FSL1H101J	CERAMIC	100PF	J	
C7 ,8		CF92FV1H123J	MF	0.012UF	J	
C9 ,10		CF92FV1H332J	MF	3300PF	J	
C11 ,12		CEO4FW1H2R2M	ELECTRO	2.2UF	50WV	
C13 ,14		CF92FV1H102J	MF	1000PF	J	
C15 ,16		CEO4FW1E470M	ELECTRO	47UF	25WV	
C17 ,18		CK45FF1H103Z	CERAMIC	0.010UF	Z	
C19 ,20		CEO4FW1H0R1M	ELECTRO	0.1UF	50WV	
C21 -24		CF92FV1H333J	MF	0.033UF	J	
C25		CEO4FW1H010M	ELECTRO	1.0UF	50WV	
C26		CEO4FW1H010M	ELECTRO	1.0UF	50WV	
C27 ,28		CC45FSL1H150J	CERAMIC	15PF	J	
C29 -32		CF92FV1H334J	MF	0.33UF	J	
C33		CEO4FW1E100M	ELECTRO	10UF	25WV	
C34 ,35		CEO4FW1E100M	ELECTRO	10UF	25WV	
C36		CEO4FW1E100M	ELECTRO	10UF	25WV	
C37 -40		CF92FV1H223J	MF	0.022UF	J	
C41 ,42		CEO4FW1E100M	ELECTRO	10UF	25WV	
C43 ,44		CK45FF1H103Z	CERAMIC	0.010UF	Z	
C45 ,46		CEO4FW1H22M	ELECTRO	0.22UF	50WV	
C47 -49		CEO4FW1H010M	ELECTRO	1.0UF	50WV	
C50		CK45FF1H472Z	CERAMIC	4700PF	Z	
C51 -64		CC45FSL1H121J	CERAMIC	120PF	J	XTE
C65 ,66		CK45FB1H222K	CERAMIC	2200PF	K	XTE
C67 ,68		CEO4FW1E221M	ELECTRO	220UF	25WV	
C69 ,70		CEO4FW1E470M	ELECTRO	47UF	25WV	
C73		CK45FF1H103Z	CERAMIC	0.010UF	Z	
C74		CEO4FW1E470M	ELECTRO	47UF	25WV	
C75 -78		CF92FV1H332J	MF	3300PF	J	XTE

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SPECIFICATION

EIA

Power Amplifier Section

Power Output

125 watts* per channel minimum RMS, both channels driven at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.05% total harmonic distortion

Both Channels Driven into

8 ohms at 1 kHz 125 W + 125 W (Except USA, Europe and U.K.)

Total Harmonic Distortion

(AUX-SPKR 8 Ω)

at Rated Output,
20 Hz ~ 20,000 Hz 0.05%
at 1/2 Rated Output,
20 Hz ~ 20,000 Hz 0.02%
at 1/2 Rated Output, 1,000 Hz 0.007%

(PHONO-SPKR 8 Ω : at -20 dB VOLUME Level)
at Rated Output, 1,000 Hz 0.02%

Intermodulation Distortion

(60 Hz:7 kHz = 4:1) 0.02% at rated power
into 8 ohms

Damping Factor

20 (1,000 Hz into 8 ohms)

Frequency Response

10 Hz to 100 kHz,
+0 dB, -3 dB

Input Sensitivity/Impedance

Phono MM 2.5 mV/47 k ohms
TUNER, AUX., TAPE PLAY 150 mV/33 k ohms

Signal-to-Noise Ratio (IHF-A)

Phono MM 73 dB for 2.5 mV input
Phono MM 79 dB for 5.0 mV input
TUNER, AUX., TAPE PLAY 100 dB

Maximum Input Level for Phono

MM 140 mV (RMS), T.H.D. 0.05%
at 1 kHz

Output Level/Impedance

TAPE REC (Pin) 150 mV/3.3 k ohms

Frequency Response for Phono

RIAA standard curve ±0.3 dB
(30 Hz to 20,000 Hz)

Tone Control

Bass ±10 dB at 100 Hz
Treble ±8 dB at 10 kHz

Loudness Control

(at -30 dB VOLUME Level) +8 dB at 100 Hz

Subsonic Filter

18 Hz, 6 dB/oct.

General

Power Consumption

4.1 A (USA and Canada : UL and
CSA)
230 W (Others)

AC Outlets

Switched 2, Unswitched 1
(Except some countries)

Dimensions

W: 420 mm (16-9/16")
H: 109 mm (4-5/16")
D: 280 mm (11")

Weight (Net)

8.5 kg (18.7 lb)

* Measured pursuant to Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifier in U.S.A.

IEC/NF

European and U.K. models

Power Amplifier Section

Rated Power Output

1 kHz, 4 ohms 90 W + 90 W

4 ohms at 60 Hz to 12.5 kHz

no more than 0.7% THD (IEC/NF) 90 W + 90 W

8 ohms at 60 Hz to 12.5 kHz

no more than 0.7% THD (IEC/NF) 80 W + 80 W

Total Harmonic Distortion

Rated Power Output into 8 ohms 0.05%

Intermodulation Distortion 0.02%

Frequency Response 10 Hz ~ 100 kHz
+0 dB, -3 dB

S/N Weighted: Rated Output Power (IEC-A)

() = Unweighted at 50 mW (DIN)

Phono MM 73 dB (56 dB)

TUNER, AUX., TAPE PLAY 100 dB (56 dB)

Damping Factor at 8 ohms, 1,000 Hz 20

Input Sensitivity/Impedance

Phono MM 2.5 mV/47 kΩ

TUNER, AUX., TAPE PLAY 150 mV/33 kΩ

Tone Control

Bass 100 Hz ±10 dB

Treble 10 kHz ±8 dB

Loudness Control (-30 dB) 8 dB at 100 Hz

Subsonic Filter 18 Hz, 6 dB/oct.

General

Power Consumption

IEC 230 W

Dimensions W: 420 mm

H: 109 mm

D: 280 mm

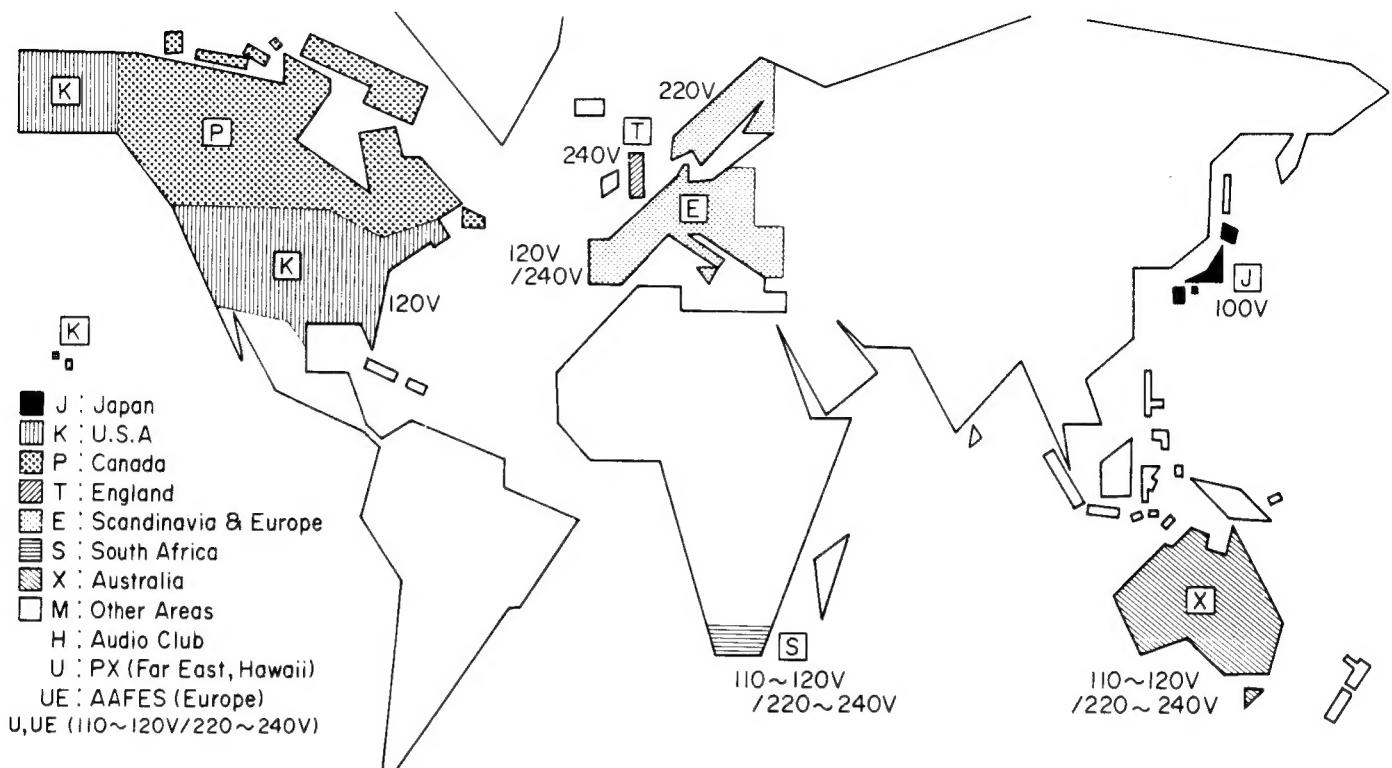
Weight (Net) 8.5 kg

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

WORLD MAP & AREA CODE



Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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